

[illegible]

SSSSSSSS	HH	HH	000000	DDDDDDDD	EEEEEEEEEE	FFFFFFFFFF			
SSSSSSSS	HH	HH	000000	DDDDDDDD	EEEEEEEEEE	FFFFFFFFFF			
SS	HH	HH	00	00	DD	DD	EE	FF	
SS	HH	HH	00	00	DD	DD	EE	FF	
SS	HH	HH	00	00	DD	DD	EE	FF	
SS	HH	HH	00	00	DD	DD	EE	FF	
SSSSSSS	HHHHHHHHHH	00	00	DD	DD	EEEEEEEE	FFFFFFFF		
SSSSSSS	HHHHHHHHHH	00	00	DD	DD	EEEEEEEE	FFFFFFFF		
	SS	HH	HH	00	00	DD	DD	EE	FF
	SS	HH	HH	00	00	DD	DD	EE	FF
	SS	HH	HH	00	00	DD	DD	EE	FF
	SS	HH	HH	00	00	DD	DD	EE	FF
SSSSSSSS	HH	HH	000000	DDDDDDDD	EEEEEEEEEE	FF			
SSSSSSSS	HH	HH	000000	DDDDDDDD	EEEEEEEEEE	FF			

```

LL               IIIIII               SSSSSSSS
LL               IIIIII               SSSSSSSS
LL               II                  SS
LL               II                  SS
LL               II                  SS
LL               II                  SS
LL               II                  SSSSSS
LL               II                  SSSSSS
LL               II                  SS
LL               II                  SS
LL               II                  SS
LL               II                  SS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS

```

SHODEF  
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- MONITOR SHOW DEFAULT Command

H 13

16-SEP-1984 02:05:00 VAX/VMS Macro V04-00

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(14) 660  
(20) 883

DECLARATIONS  
SHODEF\_CMD - MONITOR SHOW DEFAULT command  
SHOW\_CLASSES - Show all selected classes  
SHOW\_A\_LINE - Put a line of SHOW to terminal

SHO  
V04

63

63

63

```
0000 1      .TITLE SHODEF - MONITOR SHOW DEFAULT Command
0000 2      .IDENT 'V04-000'
0000 3
0000 4
0000 5 :*****
0000 6 :*
0000 7 :*  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0000 22 :*  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23 :*  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 :*
0000 25 :*
0000 26 :*****
0000 27
0000 28 :++
0000 29 : FACILITY: VAX/VMS MONITOR Utility
0000 30
0000 31 : ABSTRACT:
0000 32
0000 33 :   The SHODEF module executes the SHOW DEFAULT subcommand
0000 34 :   of the MONITOR utility. It is called by the CLE (Command
0000 35 :   Language Editor).
0000 36
0000 37 : ENVIRONMENT:
0000 38
0000 39 :   User mode, IPL 0, unprivileged.
0000 40
0000 41 : AUTHOR: Thomas L. Cafarella, March, 1983
0000 42
0000 43 : MODIFIED BY:
0000 44
0000 45 :   V03-003 PRS1016      Paul R. Senn      04-Apr-1984      14:00
0000 46 :   Use $PARSE to expand filespecs and hide passwords.
0000 47
0000 48 :   V03-003 PRS1013      Paul R. Senn      28-Mar-1984      14:00
0000 49 :   Give SHOW DEFAULT the ability to handle multiple input files.
0000 50
0000 51 :   V03-002 PRS1011      Paul R. Senn      29-Feb-1984      14:00
0000 52 :   add /FLUSH_INTERVAL qualifier
0000 53
0000 54 :   V03-001 PRS1001      Paul R. Senn      27-Dec-1983      16:00
0000 55 :   Make default interval = 6 for ALL classes Pseudo-class
0000 56 :   live requests.
0000 57 :
```



SHDEF  
V04-000

- MONITOR SHOW DEFAULT Command

J 13

16-SEP-1984 02:05:00 VAX/VMS Macro V04-00  
5-SEP-1984 02:02:35 [MONITOR.SRC]SHDEF.MAR;1

Page 2  
(1)

0000 58 ;--

SHC  
V04

```
0000 60      .SBTTL  DECLARATIONS
0000 61      .PSECT  MONDATA,QUAD,NOEXE
0000 62      :
0000 63      : INCLUDE FILES:
0000 64      :
0000 65      :
0000 66      $CDBDEF      : Define Class Descriptor Block
0000 67      $MRBDEF      : Define Monitor Request Block
0000 68      $MONDEF      : Monitor Recording File Definitions
0000 69      $DSCDEF      : Descriptor Definitions
0000 70      $IFBDEF      : File descriptor table definitions
0000 71      :
0000 72      :
0000 73      : MACROS:
0000 74      :
0000 75      :
0000 76      :
0000 77      : Local Macro Definitions
0000 78      :
0000 79      :
0000 80      :
0000 81      : ALLOC Macro - Dynamically allocate space on the stack.
0000 82      :
0000 83      :
0000 84      .MACRO  ALLOC    LENGTH,RSLDESC,RSLBUF
0000 85      SUBL    #<LENGTH+3>&<^C3>,SP
0000 86      .IF     NB,RSLBUF
0000 87      MOVL    SP,RSLBUF
0000 88      .ENDC
0000 89      PUSHL    SP
0000 90      PUSHL    #LENGTH
0000 91      MOVL    SP,RSLDESC
0000 92      .ENDM    ALLOC
0000 93      :
0000 94      :
0000 95      : EQUATED SYMBOLS:
0000 96      :
0000 97      :
```

```
0000 99 :  
0000 100 : OWN STORAGE  
0000 101 :  
0000 102 :  
61 76 20 64 65 64 72 6F 63 65 72 00' 0000 103 RV_STR: .ASCIC \recorded value\ ; Text for playback values  
65 75 6C 000C  
0E 0000  
6D 69 74 20 74 6E 65 72 72 75 63 00' 000F 104 CT_STR: .ASCIC \current time\ ; Text for /BEGINNING  
65 001B  
0C 000F  
65 74 69 6E 69 66 65 64 6E 69 00' 001C 105 ID_STR: .ASCIC \indefinite\ ; Text for /ENDING  
0A 001C  
41 21 3C 39 21 2F 0000002F'010E0000' 0027 106 CS_SEG1: .ASCID \!/9<!AS!> = !27<!\ ; Fixed segment 1 of FAOL control str  
21 3C 37 32 21 20 3D 20 3E 21 53 0035  
32 31 21 2F 3E 21 00000048'010E0000' 0040 107 CS_SEG2: .ASCID \!>/!12<!AS!> = !\ ; Fixed segment 2 of FAOL control str  
21 20 3D 20 3E 21 53 41 21 3C 004E  
3C 39 21 2F 00000060'010E0000' 0058 108 CS_SEG3: .ASCID \!/9<\ ; Fixed segment 3 of FAOL control str  
3E 21 53 41 21 0000006C'010E0000' 0064 109 CS_SEG4: .ASCID \!AS!>\ ; Fixed segment 4 of FAOL control str  
53 41 21 20 3D 20 00000079'010E0000' 0071 110 CS_SEG5: .ASCID \ = !AS\ ; Fixed segment 5 of FAOL control str  
21 3C 34 31 21 2F 00000087'010E0000' 007F 111 CS_SEG6: .ASCID \!/14<!AS!> = !\ ; Fixed segment 6 of FAOL control str  
21 20 3D 20 3E 21 53 41 008D  
20 20 20 20 20 20 0000009D'010E0000' 0095 112 CS_SEG7: .ASCID \ !AS\ ; Fixed segment 7 of FAOL control str  
53 41 21 20 20 20 20 20 20 00A3  
00AD 113  
41 21 3C 36 32 21 000000B5'010E0000' 00AD 114 CL_SEG1: .ASCID \!26<!AC!>\ ; Fixed seg 1 of classes FAOL ctrl str  
3E 21 43 00BB  
41 21 3C 36 32 21 000000C6'010E0000' 00BE 115 CL_SEG2: .ASCID \!26<!AC/!AS!>\ ; Fixed seg 2 of classes FAOL ctrl str  
3E 21 53 41 21 2F 43 00CC  
65 73 73 61 6C 43 000000DB'010E0000' 00D3 116 CLASS_HDG: .ASCID \Classes:\ ; Heading line for classes  
3A 73 00E1  
65 73 73 61 6C 43 000000EB'010E0000' 00E3 117 NO_CLASS_HDG: .ASCID \Classes: none\ ; Heading line for 'no classes'  
65 6E 6F 6E 20 3A 73 00F1  
00F8 118  
00F8 119 SHOW_FAB: $FAB, - ; FAB for $PARSE to show filespecs  
00F8 120 FOP=NAM,-  
00F8 121 NAM=SHOW_NAM  
0148 122 SHOW_NAM: $NAM, - ; NAM for $PARSE  
0148 123 ESA=SHOW_FILESPEC,-  
0148 124 ESS=NAM$C_MAXRSS,-  
0148 125 NOP=SYNCHR ; syntax check only (don't open file)  
01A8 126  
000002A7 01A8 127 SHOW_FILESPEC: .BLKB NAM$C_MAXRSS ; space for expanded filespec  
02A7 128  
000000FF 02A7 129 SHOW_SPEC_D: .LONG - SHOW_FILESPEC ; descriptor for expanded filespec  
000001A8' 02AB 130 .LONG SHOW_FILESPEC  
02AF 131  
00000000 02AF 132 ERROR_QUAL: .LONG 0 ; address of qualifier for filespec  
02B3 133 ; which contains a syntax error.  
02B3 134
```



```
02B3 136 .SBTTL SHODEF CMD - MONITOR SHOW DEFAULT command
00000000 137 .PSECT $$MONCODE,NOWRT,EXE
0000 138 :++
0000 139 :
0000 140 : FUNCTIONAL DESCRIPTION:
0000 141 :
0000 142 : This routine uses the SCRPKG to display lines in response
0000 143 : to a SHOW subcommand. All qualifiers and their current values
0000 144 : are shown, as well as all selected classes.
0000 145 :
0000 146 : INPUTS:
0000 147 :
0000 148 : None
0000 149 :
0000 150 : IMPLICIT INPUTS:
0000 151 :
0000 152 : SCRDC - quadword string descriptor for buffer required by SCRPKG.
0000 153 : CURR MRBPTR - pointer to the "current" MRB (Monitor Request Block).
0000 154 : QUALPTR - pointer to the Qualifier Descriptors block.
0000 155 : INTERVAL DEFAULT - default value for /INTERVAL qualifier.
0000 156 : ALLCL INT DEFAULT - default value for /INTERVAL qualifier for ALL class.
0000 157 : VIEWING DEFAULT - default value for /VIEWING_TIME qualifier.
0000 158 : MAX_CLASS_NO - highest MONITOR class number.
0000 159 :
0000 160 : OUTPUTS:
0000 161 :
0000 162 : None
0000 163 :
0000 164 : IMPLICIT OUTPUTS:
0000 165 :
0000 166 : SHOW command display is sent to the terminal.
0000 167 :
0000 168 : ROUTINE VALUE:
0000 169 :
0000 170 : R0 = $$$_NORMAL, or called routine error status
0000 171 :
0000 172 : SIDE EFFECTS:
0000 173 :
0000 174 : none
0000 175 :
0000 176 : REGISTER USAGE:
0000 177 :
0000 178 : R0,R1,R2,R4,R5 = scratch, used by MOV3
0000 179 : R3 = FAOL control string index
0000 180 : R7 = pointer to MRB (Monitor Request Block)
0000 181 : R8 = pointer to Qualifier Descriptors
0000 182 : R9 = FAOL parameter list index
0000 183 : R10 = address of descriptor for FAOL parameter list
0000 184 : R11 = address of descriptor for FAOL control string
0000 185 :
0000 186 :--
0000 187 :
```



```
00000000'EF 00000000'8F 000002AF'EF OFFC 0000 189
00000000'EF 00000000'8F 000002AF'EF 0000 190 .ENTRY SHODEF_CMD, ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
00000000'EF 00000000'8F 000002AF'EF 0000 191
00000000'EF 00000000'8F 000002AF'EF 0000 192
00000000'EF 00000000'8F 000002AF'EF 0000 193
00000000'EF 00000000'8F 000002AF'EF 0000 194
00000000'EF 00000000'8F 000002AF'EF 0000 195
00000000'EF 00000000'8F 000002AF'EF 0000 196
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00000000'EF 00000000'8F 000002AF'EF 0000 232
00000000'EF 00000000'8F 000002AF'EF 0000 233
00000000'EF 00000000'8F 000002AF'EF 0000 234
00000000'EF 00000000'8F 000002AF'EF 0000 235

10$:
PUSHAQ SCRDSC ; Push this routine's buffer addr
CALLS #1,G^SCR$SET_OUTPUT ; Establish output stream
BLBS R0,10$ ; Branch if status OK
BRW SHD_ERR ; Else go exit with error

20$:
ALLOC 40,R10,R9 ; Allocate an FAOL parameter list
ALLOC 80,R11,R3 ; Allocate an FAOL control string
MOVL CURR_MRBPTR,R7 ; Load up ptr to MRB
MOVL QUALPTR,R8 ; ... and ptr to qualifier descriptors

Show /BEGINNING qualifier

MOVW #^A\!/\,(R3)+ ; Move 'new-line' to FAOL control string
MOVC3 CS_SEG1,CS_SEG1+8,(R3) ; Move fixed segment into control string
MOVAL QUAL$L_BEGTR8),(R9)+ ; /BEGINNING qual name to FAOL prmlst
MOVQ MRB$Q_BEGINNING(R7),R0 ; Test /BEGINNING defaulted?
BEQL 30$ ; Branch if so
MOVW #^A/XD/,(R3)+ ; FAOL date-time directive to ctrstr
MOVAL MRB$Q_BEGINNING(R7),(R9)+ ; BEGINNING time to FAOL prmlst
BRB SHD_INT ; Go set up /INTERVAL

30$:
MOVW #^A/AC/,(R3)+ ; FAOL cstring directive to ctrstr
TSTL MRB$A_INPUT(R7) ; Live or Playback?
BEQL 40$ ; Go do live
MOVAL RV_STR,(R9)+ ; Playback -- cstring ptr to FAOL prmlst
BRB SHD_INT ; Go set up /INTERVAL

40$:
MOVAL CT_STR,(R9)+ ; Live
; "Current time" cstring ptr to prmlst
```

```
00A2 237 ;
00A2 238 ; Show /INTERVAL qualifier
00A2 239 ;
00A2 240 ;
00A2 241 SHO_INT:
63 00000048'EF 00000040'EF 28 00A2 242 MOV C3 CS_SEG2,CS_SEG2+8,(R3) ; Move fixed segment into control string
89 10 A8 DE 00AE 243 MOVAL QUAL$,_INT(R8),(R9)+ ; /INTERVAL qual name to FAOL prmlst
10 A7 D5 00B2 244 TSTL MRB$_INTERVAL(R7) ; /INTERVAL defaulted ?
0B 13 00B5 245 BEQL 10$ ; Branch if so
83 4C5A 8F B0 00B7 246 MOVW #^A/ZL/,(R3)+ ; FAO decimal directive to ctrstr
89 10 A7 D0 00BC 247 MOVL MRB$_INTERVAL(R7),(R9)+ ; INTERVAL value to FAOL prmlst
2D 11 00C0 248 BRB 30$ ; Continue.....
00C2 249 10$: ; /INTERVAL defaulted
00C2 250 TSTL MRB$_INPUT(R7) ; Live or Playback ?
0E 13 00C5 251 BEQL 20$ ; Go do live
83 4341 8F B0 00C7 252 MOVW #^A/AC/,(R3)+ ; FAO cstring directive to ctrstr
89 00000000'EF DE 00CC 253 MOVAL RV_STR,(R9)+ ; Playback -- cstring ptr to FAOL prmlst
1A 11 00D3 254 BRB 30$ ; Continue.....
00D5 255 20$: ; Live
83 4C5A 8F B0 00D5 256 MOVW #^A/ZL/,(R3)+ ; FAO decimal directive to ctrstr
09 43 A7 0A E0 00DA 257 BBS #MRB$_V_ALL_CLASS,MRB$_V_FLAGS(R7),25$ ; Special default for ALL
89 00000000'8F D0 00DF 258 MOVL #INTERVAL_DEFAULT,(R9)+ ; Default INTERVAL value to prmlst
07 11 00E6 259 BRB 30$ ; Continue.....
00E8 260 25$:
89 00000000'8F D0 00E8 261 MOVL #ALLCL_INT_DEFAULT,(R9)+ ; Default INTERVAL value for ALL class
00EF 262
00EF 263 30$:
FC A9 DD 00EF 264 PUSHL -4(R9) ; Save interval val for /VIEWING_TIME
00F2 265
00F2 266 ;
00F2 267 ; Display a line showing /BEGINNING and /INTERVAL
00F2 268 ;
00F2 269
03FB 30 00F2 270 BSBW SHOW_SINGLE ; Show the line, single-spaced
03 50 E8 00F5 271 BLBS RO,_SHO_END ; Go on to /ENDING if status OK
02EF 31 00F8 272 BRW SHD_ERR ; Otherwise, go exit
```

```
00FB 274 : Show /ENDING qualifier
00FB 275 :
00FB 276 :
00FB 277 :
00FB 278 SHO_END:
53 04 AB D0 00FB 279 MOVL 4(R11),R3 : Point to beginning of FAOL ctrl string
59 04 AA D0 00FF 280 MOVL 4(R10),R9 : Point to beginning of FAOL parm list
0103 281
63 0000002F'EF 00000027'EF 28 0103 282 MOVCL CS_SEG1,CS_SEG1+8,(R3) : Move fixed segment into control string
89 08 A8 DE 010F 283 MOVAL QUALSL_END(R8),(R9)+ : /ENDING qual name to FAOL prmlst
50 08 A7 7D 0113 284 MOVQ MRBSQ_ENDING(R7),R0 : Test /ENDING defaulted?
0B 13 0117 285 BEQL 10$ : Branch if so
83 4425 8F B0 0119 286 MOVW #A/XD/,(R3)+ : FAOL date-time directive to ctrstr
89 08 A7 DE 011E 287 MOVAL MRBSQ_ENDING(R7),(R9)+ : ENDING time to FAOL prmlst
1A 11 0122 288 BRB SHO_VIEW : Go set up /VIEWING_TIME
0124 289 10$: : /ENDING defaulted
83 4341 8F B0 0124 290 MOVW #A/AC/,(R3)+ : FAOL cstring directive to ctrstr
1C A7 D5 0129 291 TSTL MRBSA_INPUT(R7) : Live or Playback?
09 13 012C 292 BEQL 20$ : Go do Live
89 00000000'EF DE 012E 293 MOVAL RV_STR,(R9)+ : Playback -- cstring ptr to FAOL prmlst
07 11 0135 294 BRB SHO_VIEW : Go set up /VIEWING_TIME
0137 295 20$: : Live
89 0000001C'EF DE 0137 296 MOVAL ID_STR,(R9)+ : "Indefinite" cstring ptr to prmlst
013E 297
013E 298 :
013E 299 : Show /VIEWING_TIME qualifier
013E 300 :
013E 301 :
013E 302 SHO_VIEW:
63 00000048'EF 00000040'EF 28 013E 303 MOVCL CS_SEG2,CS_SEG2+8,(R3) : Move fixed segment into control string
89 20 A8 DE 014A 304 MOVAL QUALSL_VIEW(R8),(R9)+ : Qualifier name to FAOL prmlst
83 4C5A 8F B0 014E 305 MOVW #A/ZL7,(R3)+ : FAOL decimal directive to ctrstr
18 A7 D5 0153 306 TSTL MRBSL_VIEWING_TIME(R7) : /VIEWING TIME defaulted?
06 13 0156 307 BEQL 10$ : Branch if so
89 18 A7 D0 0158 308 MOVL MRBSL_VIEWING_TIME(R7),(R9)+ : VIEWING_TIME value to FAOL prmlst
11 11 015C 309 BRB 30$ : Continue.....
015E 310 10$: : /VIEWING TIME defaulted
1C A7 D5 015E 311 TSTL MRBSA_INPUT(R7) : Live or Playback?
09 13 0161 312 BEQL 20$ : Go do Live
89 00000000'8F D0 0163 313 MOVL #VIEWING_DEFAULT,(R9)+ : Default VIEWING_TIME value to prmlst
03 11 016A 314 BRB 30$ : Continue.....
016C 315 20$: : Live
89 8E D0 016C 316 MOVL (SP)+,(R9)+ : Pop saved /INTERVAL value to prmlst
016F 317 30$: :
016F 318 :
016F 319 :
016F 320 : Display a line showing /ENDING and /VIEWING_TIME
016F 321 :
016F 322 :
0382 30 016F 323 BSBW SHOW DOUBLE : Show the line, double-spaced
03 50 E8 0172 324 BLBS RO,SHO_FLUSH : Go on to file qualifiers if status OK
0272 31 0175 325 BRW SHD_ERR : Otherwise, go exit
0178 326
```



```
0178 328 : Show /FLUSH_INTERVAL qualifier
0178 329 :
0178 330 :
0178 331 :
0178 332 SHO_FLUSH:
53 04 AB D0 0178 333 MOVL 4(R11),R3 : Point to beginning of FAOL ctrl string
59 04 AA D0 017C 334 MOVL 4(R10),R9 : Point to beginning of FAOL parm list
0180 335
63 00000087'EF 0000007F'EF 28 0180 336 MOVLC3 CS SEG6,CS SEG6+8,(R3) : Move fixed segment into control string
89 18 A8 DE 018C 337 MOVAL QUAL$ _FLUSH(R8),(R9)+ : Qualifier name to FAOL prmlst
83 4C5A 8F B0 0190 338 MOVW #^A/ZL7,(R3)+ : FAO decimal directive to ctrstr
14 A7 D5 0195 339 TSTL MRB$_FLUSH(R7) : /FLUSH defaulted?
06 13 0198 340 BEQL 10$ : Branch if so
89 14 A7 D0 019A 341 MOVL MRB$_FLUSH(R7),(R9)+ : FLUSH value to FAOL prmlst
07 11 019E 342 BRB 30$ : Continue....
10$: 343 : /FLUSH defaulted
30$: 344 MOVL #FLUSH_INT_DEFAULT,(R9)+ : Default FLUSH value to prmlst
01A7 345
01A7 346
01A7 347 : Display a line showing /FLUSH_INTERVAL
01A7 348 :
01A7 349 :
034A 30 01A7 351 BSBW SHOW DOUBLE : Show the line, double-spaced
03 50 E8 01AA 352 BLBS R0,SHO_FILES : Go on to file qualifiers if status OK
023A 31 01AD 353 BRW SHD_ERR : Otherwise, go exit
0180 354
0180 355 :
0180 356 : Show qualifiers which always have string values
0180 357 : (if they are present). These are typically qualifiers
0180 358 : with file specs as values.
0180 359 :
0180 360 :
0180 361 SHO_FILES:
0180 362
0180 363 ALLOC 8,R0,R6 : Allocate a pair of longwords to pass
018D 364 : ... as input parameter in R6 to
018D 365 : ... SHOW_FILE_QUAL
018D 366 :
018D 367 : At this point, MRB$_INPUT contains the address of the IFB table, or 0
018D 368 : if there is no current default. (Later, MRB$_INPUT will be changed
018D 369 : to be the address of a single file spec descriptor, unless we are
018D 370 : doing a multi-file summary.)
018D 371 :
04 66 1C A7 D0 018D 372 MOVL MRB$_INPUT(R7),(R6) : Load addr of qualifier value descr
04 A6 28 A8 DE 01C1 373 MOVAL QUAL$_INP(R8),4(R6) : Load addr of qualifier name descr
0045 30 01C6 374 BSBW SHOW_INPUT_QUAL : display input qualifier
3F 50 E9 01C9 375 BLBC R0,SF_ERR : Go return if error
01CC 376
04 66 24 A7 D0 01CC 377 MOVL MRB$_RECORD(R7),(R6) : Load addr of qualifier value descr
04 A6 38 A8 DE 01D0 378 MOVAL QUAL$_REC(R8),4(R6) : Load addr of qualifier name descr
00D6 30 01D5 379 BSBW SHOW_FILE_QUAL : Show a line for /RECORD
30 50 E9 01D8 380 BLBC R0,SF_ERR : Go return if error
01DB 381
04 66 20 A7 D0 01DB 382 MOVL MRB$_DISPLAY(R7),(R6) : Load addr of qualifier value descr
04 A6 30 A8 DE 01DF 383 MOVAL QUAL$_DISP(R8),4(R6) : Load addr of qualifier name descr
00C7 30 01E4 384 BSBW SHOW_FILE_QUAL : Show a line for /DISPLAY
```

```

21 50 E9 01E7 385 BLBC R0,SF_ERR ; Go return if error
      01EA 386
04 66 28 A7 D0 01EA 387 MOVL MRB$A_SUMMARY(R7),(R6) ; Load addr of qualifier value descr
A6 40 A8 DE 01EE 388 MOVAL QUAL$C_SUMM(R8),4(R6) ; Load addr of qualifier name descr
      00B8 30 01F3 389 BSBW SHOW_FILE_QUAL ; Show a line for /SUMMARY
      12 50 E9 01F6 390 BLBC R0,SF_ERR ; Go return if error
      01F9 391
04 66 2C A7 D0 01F9 392 MOVL MRB$A_COMMENT(R7),(R6) ; Load addr of qualifier value descr
A6 48 A8 DE 01FD 393 MOVAL QUAL$C_COMM(R8),4(R6) ; Load addr of qualifier name descr
      00FF 30 0202 394 BSBW SHOW_QUAL ; Show a line for /COMMENT
      03 50 E9 0205 395 BLBC R0,SF_ERR ; Branch on error
      013D 31 0208 396 BRW SCAN_CLASSES ; Go on to show classes if no errors
      020B 397
      020B 398 SF_ERR:
01DC 31 020B 399 BRW SHD_ERR ; Go log error and return
```

```
63 00000060'EF 00000058'EF 58 DD 020E 401 SHOW_INPUT_QUAL:
      53 58 01 DO 020E 402 PUSH R8 ; save R8 so we can use it as scratch
      59 04 AB DO 0210 403 MOVL #1,R8 ; init input file counter
      66 04 AA DO 0213 404 MOVL 4(R11),R3 ; Point to beginning of FAOL ctrl string
      05 05 12 DO 0217 405 MOVL 4(R10),R9 ; Point to beginning of FAOL parm list
      83 4F4E 8F B0 021B 406 MOV C3 CS_SEG3,CS_SEG3+8,(R3) ; Move fixed segment into control string
      05 12 0227 407 TSTL (R8) ; Qualifier present?
      05 12 0229 408 BNEQ 5$ ; Branch if yes
      83 4F4E 8F B0 022B 409 MOVW #^A/NO/, (R3)+ ; No -- move NO to control string
63 0000006C'EF 00000064'EF 28 0230 410 5$:
      89 04 A6 DO 0230 411 MOV C3 CS_SEG4,CS_SEG4+8,(R3) ; Move fixed segment into control string
      66 05 023C 412 MOVL 4(R6),(R9)+ ; Qualifier name descr to FAOL prmlst
      02 12 0240 413 TSTL (R6) ; Qualifier present?
      19 11 0242 414 BNEQ 7$ ; Branch if yes
      55 42 A7 9A 0244 415 BRB 10$ ; No, go straight to SHOW_DOUBLE call
      01 55 D1 0246 416 7$:
      16 14 0246 417 MOVZBL MRBSB_INP_FILES(R7),R5 ; Number of input files to R5
      024A 418 CMPL R5,#1 ; How many input files?
      024D 419 BGTR 12$ ; branch if there are > 1 input files
      024F 420 ;
      024F 421 ; If we got here, only one file was specified for /INPUT, so just
      024F 422 ; do a SHOW_DOUBLE for that file and the /INPUT qualifier, and get out.
      024F 423 ;
63 00000079'EF 00000071'EF 28 024F 424 MOV C3 CS_SEG5,CS_SEG5+8,(R3) ; Move fixed segment into control string
      89 00 B6 D0 025B 425 MOVL @ (R6),(R9)+ ; Qual value descr to FAOL prmlst
      025F 426 10$:
      025F 427 ;
      025F 428 ;
      025F 429 ; At this point, either 0 (/NOINPUT case) or 1 file was specified for input.
      025F 430 ;
      025F 431 ;
      0292 30 025F 432 BSBW SHOW_DOUBLE ; Show the line, double-spaced
      0045 31 0262 433 BRW 25$ ; get out
      0265 434 ;
      0265 435 ; Begin multi-file summary loop
      0265 436 ;
      0265 437 ;
      0265 438 12$:
      01 55 DD 0265 439 PUSH R5 ; Save count of # of input files
      58 D1 0267 440 CMPL R8,#1 ; Are we on file #1?
      0E 12 026A 441 BNEQ 15$ ; Branch if we have passed file #1
      026C 442 ;
      026C 443 ; If we got here, we are doing a multi-file summary and we are processing
      026C 444 ; input file #1.
      026C 445 ;
63 00000079'EF 00000071'EF 28 026C 446 MOV C3 CS_SEG5,CS_SEG5+8,(R3) ; Move fixed segment into control string
      0C 11 0278 447 BRB 18$ ; skip past alternate control string
      027A 448 15$:
      027A 449 ;
      027A 450 ; If we got here, this is a multi-file summary
      027A 451 ; and we have processed the first file in the list already,
      027A 452 ; so we use a different FAOL control string
      027A 453 ;
63 0000009D'EF 00000095'EF 28 027A 454 MOV C3 CS_SEG7,CS_SEG7+8,(R3) ; Move fixed segment into control string
      55 8ED0 0286 455 18$:
      89 00 B6 D0 0286 456 POPL R5 ; get R5 back (pushed to save from MOV C)
      0289 457 MOVL @ (R6),(R9)+ ; Qual value descr to FAOL prmlst
```



```
66 05 C0 028D 458 ADDL2 #IFB$K_SIZE,(R6) ; move to next IFB
      0290 459
      0290 460 20$:
58 55 D1 0290 461 CMPL R5,R8 ; Is this the last input file?
      05 12 0293 462 BNEQ 23$ ; branch if not
      025C 30 0295 463 BSBW SHOW_DOUBLE ; Show the last line, double-spaced
      10 11 0298 464 BRB 25$ ; and get out
      0253 30 029A 465 23$:
53 04 AB D0 029D 466 BSBW SHOW_SINGLE ; Show the line, single-spaced
59 04 AA D0 02A1 467 MOVL 4(R1T),R3 ; Point to beginning of FAOL ctrl string
      58 D6 02A5 468 MOVL 4(R10),R9 ; Point to beginning of FAOL parm list
      FFBB 31 02A7 469 INCL R8 ; on to next input file.
      02AA 470 BRW 12$ ; Loop
      02AA 471
      02AA 472 25$:
      58 8ED0 02AA 473 POPL R8 ; Restore R8
      05 02AD 474 RSB ; Return with status in R0
```

```
66  D5 02AE 476 SHOW_FILE QUAL:
52  13 02AE 477 TSTL (R6) ; Qualifier present?
02B0 478 BEQL SHOW_QUAL ; Branch if not
02B2 479
02B2 480
02B2 481 : Use $PARSE to get filespec with defaults applied
02B2 482 : and password removed from access control string. Note that the file
02B2 483 : does not exist yet, but $PARSE will still do the work of
02B2 484 : applying defaults and removing the password, if necessary
02B2 485 :
50  01 D0 02B2 486 MOVL #1,R0 ; set up for post-indexing
00  B6 90 02B5 487 MOVB @ (R6), -
0000012C'EF 00 B640 D0 02B8 488 SHOW_FAB + FAB$B_FNS ; plug FAB with filespec length
00000124'EF 00 B640 D0 02BD 489 MOVL @ (R6)[R0], -
02C6 490 SHOW_FAB + FAB$B_FNA ; plug FAB with filespec address
02C6 491 $PARSE FAB=SHOW_FAB ; do the parse
1C 50 E8 02D3 492 BLBS R0,10$ ; Branch if OK
00000000'8F 50 D1 02D6 493 CMPL R0,#RMS$_SYN ; Filespec syntax error?
01 13 02DD 494 BEQL 5$ ; Branch if so
05 05 02DF 495 RSB ; unknown error, return with status
02E0 496
02E0 497 : file specification syntax error processing: save the bad qualifier name,
02E0 498 : to be reported after SHOW display finishes. Note that we can only
02E0 499 : report on one syntax error per SHOW.
02E0 500
000002AF'EF D5 02E0 501 5$: TSTL ERROR_QUAL ; has there already been a syntax error?
1C 12 02E6 502 BNEQ SHOW_QUAL ; branch if so (we can only report first err
000002AF'EF 04 A6 D0 02E8 503 MOVL 4(R6), - ; load address of offending qualifier
12 11 02F0 504 ERROR_QUAL
02F2 505 BRB SHOW_QUAL ; display unparsed spec containing error
00000153'EF 9A 02F2 506 10$: MOVZBL SHOW_NAM+NAM$B_ESL,- ; Plug descriptor with length
000002A7'EF 02F8 507 SHOW_SPEC_D ; passed back from $PARSE
66 000002A7'EF DE 02FD 508 MOVAL SHOW_SPEC_D,(R6) ; point to parsed spec descriptor
0304 509 ; and fall through to SHOW_QUAL
0304 510 SHOW_QUAL:
0304 511
53 04 AB D0 0304 512 MOVL 4(R11),R3 ; Point to beginning of FAOL ctrl string
59 04 AA D0 0308 513 MOVL 4(R10),R9 ; Point to beginning of FAOL parm list
030C 514
63 00000060'EF 00000058'EF 28 030C 515 MOVCL CS_SEG3,CS_SEG3+8,(R3) ; Move fixed segment into control string
66 D5 0318 516 TSTL (R6) ; Qualifier present?
05 12 031A 517 BNEQ 10$ ; Branch if yes
83 4F4E 8F B0 031C 518 MOVW #*A/NO/, (R3)+ ; No -- move NO to control string
0321 519 10$:
63 0000006C'EF 00000064'EF 28 0321 520 MOVCL CS_SEG4,CS_SEG4+8,(R3) ; Move fixed segment into control string
89 04 A6 D0 032D 521 MOVL 4(R6),(R9)+ ; Qualifier name descr to FAOL prmlst
66 D5 0331 522 TSTL (R6) ; Qualifier present?
OF 13 0333 523 BEQL 20$ ; Branch if no
63 00000079'EF 00000071'EF 28 0335 524 MOVCL CS_SEG5,CS_SEG5+8,(R3) ; Move fixed segment into control string
89 66 D0 0341 525 MOVL (R6),(R9)+ ; Qual value descr to FAOL prmlst
0344 526
0344 527
0344 528 : Display a line showing current qualifier
0344 529
0344 530
0344 531
0344 532 20$:
```

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- MONITOR SHOW DEFAULT Command	16-SEP-1984 02:05:00	VAX/VMS Macro V04-00
SHODEF_CMD - MONITOR SHOW DEFAULT comman	5-SEP-1984 02:02:35	[MONITOR.SRC]SHODEF.MAR;1

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01AD	30	0344	533	BSBW	SHOW_DOUBLE	; Show the line, double-spaced
		0347	534			
	05	0347	535	RSB		; Return with status in R0



```
0348 537 SCAN_CLASSES:
0348 538
0348 539
0348 540 : Scan the MRB$O_CLASSBITS field of the MRB to determine the selected
0348 541 : classes. Create a vector of bytes containing a class number for each
0348 542 : selected class. Then show the selected classes by calling SHOW_CLASSES
0348 543 : with the vector as input.
0348 544
0348 545
0348 546 REGISTER USAGE:
0348 547
0348 548 R0,R1 = scratch
0348 549 R2 = bit field starting position for FFS instruction
0348 550 R3 = bit field size for FFS instruction
0348 551 R4 = class number determined by FFS instruction
0348 552 R5 = index into MRB$O_CLASSBITS
0348 553 R6 = pointer to byte vector of class numbers
0348 554 R7 = pointer to MRB (Monitor Request Block)
0348 555 R8 = pointer to Qualifier Descriptors
0348 556 R9 = class counter
0348 557 R10 = address of descriptor for FAOL parameter list
0348 558 R11 = address of descriptor for FAOL control string
0348 559
0348 560
0348 561 ALLOC MAX_CLASS_NO+1,R0,R6 ; Get a byte vector for class numbers
0348 562 : to be shown, and point R6 to it
59 D4 035D 563 CLRL R9 ; Init class counter
035F 564
035F 565
035F 566 : Use FFS instruction to scan the class bits in the MRB, filling
035F 567 : the above byte vector with a class number for each class found.
035F 568 : R9 contains the count of classes found.
035F 569
035F 570
55 D4 035F 571 CLRL R5 ; Init starting bit position
0361 572 20$:
53 20 D0 0361 573 MOVL #32,R3 ; Init bit field size
0364 574 : NOTE -- must handle in 32-bit chunks
52 55 D0 0364 575 MOVL R5,R2 ; Init start position of next chunk
0367 576 30$:
54 32 A7 53 52 EA 0367 577 FFS R2,R3,MRB$O_CLASSBITS(R7),R4 ; Search for next class number
036D 578 : R4 contains class no. if found
036D 579 BEQL 40$ ; Branch if none found this chunk
6649 54 90 036F 580 MOVB R4,(R6)[R9] ; Move class no. into byte vector
59 D6 0373 581 INCL R9 ; Count this class
0375 582
0375 583 ADDL2 R2,R3 ; Compute next starting
52 54 01 C1 0378 584 : ... position and field size
53 52 C2 037C 585 : ... for this chunk
E6 11 037F 586 BRB 30$ ; Go search rest of chunk
0381 587 40$:
FFDB 55 20 0000'8F 3D 0381 588 ACBW #MAX_CLASS_NO,#32,R5,20$ ; Loop to process next chunk
```

```

0389 590 :
0389 591 : At this point, R6 points to a byte vector consisting of the
0389 592 : class numbers for classes to show. R9 contains the count of
0389 593 : classes to show.
0389 594 :
0389 595 :
0389 596 :
0389 597 : Show class-names and their associated display qualifiers.
0389 598 :
0389 599 :
0389 600 : PUSHL R11 ; Stack addr of descr for FAOL ctrl str
0389 601 : PUSHL R10 ; Stack addr of descr for FAOL prm list
0389 602 : PUSHL R6 ; Stack addr of byte vector of class nos.
0389 603 : PUSHL R9 ; Stack count of classes to show
0000041E'EF 04 FB 0391 604 : CALLS #4,SHOW_CLASSES ; Show all classes and their
0398 605 : ; associated display qualifiers
0398 606 : BLBC R0,SHD_ERR ; Exit if error
0398 607 :
0398 608 :
0398 609 : Print one final blank line for readability
0398 610 :
0398 611 :
0398 612 : ALLOC 8,R0,R1 ; Get quadword for dummy descr
0398 613 : CLRL (R1) ; Make length 0
0398 614 : MOVAL 4(R1),4(R1) ; ... and point it to itself
0398 615 : PUSHL #1 ; Stack single spacing indicator
0398 616 : PUSHL R1 ; ... and dummy text descriptor
00000000'GF 02 FB 03B3 617 : CALLS #2,G^SCR$PUT_LINE ; Put blank line to the terminal
0398 618 : BLBC R0,SHD_ERR ; Exit if error
0398 619 :
0398 620 :
0398 621 :
0398 622 : SHOW subcommand processing complete
0398 623 :
0398 624 :
0398 625 :
0398 626 :
0398 627 : See if we encountered a filespec syntax error on SHOW_FILE_QUAL parse,
0398 628 : and if so, report it.
0398 629 :
0398 630 :
0398 631 : MOVL #SS$ NORMAL,R0 ; Assume success status
0398 632 : TSTL ERROR_QUAL ; was there a syntax error?
0398 633 : BEQL SHD_RET ; no, return with success
0398 634 : PUSHL ERROR_QUAL ; push address of qualifier descriptor
0398 635 : CLRL -(SP) ; no secondary code
0398 636 : PUSHL #MNR$ FILSYNERR ; Push syntax error status code
00000000'EF 03 FB 03DA 637 : CALLS #3,MOR_ERR
0398 638 : MOVL #MNR$ FILSYNERR,R0 ; Get status to caller
0398 639 : BRB SHD_RET ; Go return
0398 640 :
0398 641 : SHD_ERR: ; Log error and return
0398 642 : PUSHL R0 ; Bad status on stack
0398 643 : PUSHL (SP) ; Stack pointer to bad status
0398 644 : PUSHL #MNR$ SHOWERR ; Stack MONITOR failing status code
00000000'EF 02 FB 03F4 645 : CALLS #2,MOR_ERR
0398 646 : MOVL #MNR$ SHOWERR,R0 ; Log the error
0398 647 : ; Get status to caller
0402 648 :

```

[illegible]

SHODEF  
V04-000

- MONITOR SHOW DEFAULT Command L 14 16-SEP-1984 02:05:00 VAX/VMS Macro V04-00 Page 17  
SHODEF\_CMD - MONITOR SHOW DEFAULT comman 5-SEP-1984 02:02:35 [MONITOR.SRC]SHODEF.MAR;1 (13)

		0402	647	SHD_RET:		: Return point from SHODEF_CMD routine
		0402	648			
01	BB	0402	649	PUSHR	#^M<R0>	: Save return status
00000000'GF	00	FB	650			
		0404	651	CALLS	#0,G^LIB\$PUT_BUFFER	: Output SCRPKG buffer & stop buffering
		0408	652			
00	DD	0408	653	PUSHL	#0	: Indicate "clear buffer mode"
00000000'GF	01	FB	654	CALLS	#1,G^LIB\$SET_BUFFER	: ... and tell SCRPKG to clear it
00000000'GF	00	FB	655	CALLS	#0,G^SCR\$STOP_OUTPUT	: Stop output stream
		041B	656			
01	BA	041B	657	POPR	#^M<R0>	: Get back SHODEF_CMD return status
	04	041D	658	RET		: Return with status in R0

SHO  
Sym

RMS  
RV  
SAC  
SCA  
SCR  
SCR  
SCR  
SF  
SHC  
SHC  
SHD  
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TOP  
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VIE

PSE  
---

MON  
SAE  
SSA



```
041E 660 .SBTTL SHOW_CLASSES - Show all selected classes
041E 661
041E 662 ++
041E 663
041E 664 FUNCTIONAL DESCRIPTION:
041E 665
041E 666 SHOW_CLASSES fills out the FAOL parameter list and
041E 667 control string with the information required to
041E 668 display each of the classes followed by the display
041E 669 qualifier for each. It accepts as input a count of
041E 670 the number of classes to show and a byte vector
041E 671 containing a class number for each class.
041E 672
041E 673 INPUTS:
041E 674
041E 675 4(AP) - count of classes to be shown
041E 676
041E 677 8(AP) - address of byte vector containing a class number
041E 678 for each selected class
041E 679
041E 680 12(AP) - address of descriptor for FAOL parameter list
041E 681
041E 682 16(AP) - address of descriptor for FAOL control string
041E 683
041E 684
041E 685 IMPLICIT INPUTS:
041E 686
041E 687 CDBHEAD - table of contiguous CDB's, one for each class.
041E 688
041E 689 CLASSTABLE - table of contiguous quadwords, one for each class.
041E 690 Each quadword consists of a pointer to a counted
041E 691 ASCII string for the class name followed by a
041E 692 longword containing the class number.
041E 693
041E 694 PROCD_TABLE - table of contiguous longword pointers, one for
041E 695 each PROCESSES display qualifier. Each pointer
041E 696 points to a string descriptor for the qualifier
041E 697 name.
041E 698
041E 699 STAT_TABLE - table similar to PROCD_TABLE but instead points
041E 700 to statistic qualifiers for standard classes.
041E 701
041E 702 OUTPUTS:
041E 703
041E 704 none
041E 705
041E 706 IMPLICIT OUTPUTS:
041E 707
041E 708 FAOL control string and parameter list updated.
041E 709
041E 710 ROUTINE VALUE:
041E 711
041E 712 RO = $$$_NORMAL, or called routine error status.
041E 713
041E 714 SIDE EFFECTS:
041E 715
041E 716 none
```

SHODEF  
V04-000

- MONITOR SHOW DEFAULT Command N 14 16-SEP-1984 02:05:00 VAX/VMS Macro V04-00  
SHOW\_CLASSES - Show all selected classes 5-SEP-1984 02:02:35 [MONITOR.SRC]SHODEF.MAR;1

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041E 717 :  
041E 718 :--  
041E 719

\*\*F

```
OFFC 041E 721
      041E 722 .ENTRY SHOW_CLASSES, ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>
      0420 723
SA 0C AC D0 0420 724      MOVL 12(AP),R10      ; Load ptr to descr for FAOL parm list
SB 10 AC D0 0424 725      MOVL 16(AP),R11      ; Load ptr to descr for FAOL ctrl str
      0428 726
      0428 727      TSTL 4(AP)      ; Test number of classes
      03 12 0428 728      BNEQ 10$      ; Branch if at least one
      004B 31 042D 729      BRW 50$      ; None -- go tell user
      0430 730
      0430 731
      0430 732      ; Display "Classes:" heading
      0430 733
      0430 734
      0430 735 10$:
      0430 736      PUSHL #1      ; Stack "single-spacing" indicator
      0432 737      PUSHAL CLASS_HDG      ; ... and text descriptor
      0438 738      CALLS #2,G^5CR$PUT_LINE      ; Put header to the terminal
      043F 739      BLBC R0,SHC_RET      ; Exit if error
      0442 740
      0442 741      CLRL R7      ; Init byte vector index
      0444 742      CLRL R8      ; Indicate this class at beg of line
      0446 743 20$:
      0446 744      TSTL R8      ; Need to start this class on new line?
      0E 12 0448 745      BNEQ 30$      ; Branch if not
      044A 746
      044A 747      MOVL 4(R10),R9      ; Point to beginning of FAOL parm list
      044E 748      MOVL 4(R11),R3      ; Point to beginning of FAOL ctrl string
      83 20 90 0452 749      MOVBL #^A/ /,(R3)+      ; Start classes in column 2 of screen
      58 03 D0 0455 750      MOVL #3,R8      ; Init "classes per line" count
      0458 751 30$:
      0458 752      MOVL 8(AP),R0      ; Get addr of byte vector
      045C 753      MOVZBL (R0)[R7],R2      ; Get class number for BUILD_FAOL_ARGS
      0460 754      BSBW BUILD_FAOL_ARGS      ; Bld FAOL prmlst & ctrstr 4 this class
      0463 755
      0463 756
      0463 757      DECL R8      ; NOTE -- this rtn destroys REGS R0-R2
      06 12 0465 758      BNEQ 40$      ; ... and R4-R6. Also updates R3 and R9
      0467 759      ; Update "classes left this line"
      0467 760
      0467 761      ; Show a line of 3 classes
      0467 762
      0467 763
      0086 30 0467 764      BSBW SHOW_SINGLE      ; Show the line, single-spaced
      27 50 E9 046A 765      BLBC R0,SHC_RET      ; Exit if error
      046D 766
      046D 767 40$:
      046D 767      AOBLS 4(AP),R7,20$      ; Loop back to do next class
```

```
58 D5 0472 769 TSTL R8 ; Classes remaining to be shown?
17 13 0474 770 BEQL SHC_NORM ; Branch if not
    0476 771
    0476 772
    0476 773 : Show final class line
    0476 774 :
    0476 775
0077 30 0476 776 BSBW SHOW_SINGLE ; Show the line, single-spaced
12 11 0479 777 BRB SHC_NORM ; ... and return with normal status
    047B 778
    047B 779 : Show 'No classes' heading
    047B 780 :
    047B 781 :
    047B 782
    047B 783 50$:
01 DD 047B 784 PUSHL #1 ; Stack 'single-spacing' indicator
000000E3'EF DF 047D 785 PUSHAL NO_CLASS_HDG ; ... and text descriptor
00000000'GF 02 FB 0483 786 CALLS #2,G^SCR$PUT_LINE ; Put header to the terminal
07 50 E9 048A 787 BLBC R0,SHC_RET ; Exit if error
    048D 788
    048D 789 SHC_NORM:
50 00000000'8F D0 048D 790 MOVL #SS$_NORMAL,R0 ; No failing status hit
    0494 791
    0494 792 SHC_RET:
04 0494 793 RET ; Return with status already in R0
```



```
0495 795 : BUILD_FAOL_ARGS subroutine.
0495 796 :
0495 797 :
0495 798 : This subroutine annexes FAOL directives to the control
0495 799 : string, and parameters to the parameter list for the
0495 800 : current class.
0495 801 :
0495 802 :
0495 803 : REGISTER USAGE:
0495 804 :
0495 805 : R0,R1 = scratch
0495 806 : R2 = class number of current class (input)
0495 807 : R3 = next available byte in FAOL control string (input)
0495 808 : R4,R5,R6 = scratch
0495 809 : R9 = next available longword in FAOL parameter list (input)
0495 810 :
0495 811 : NOTE -- R3 and R9 are updated. R0-R2 and R4-R6 are destroyed.
0495 812 :
0495 813 :
0495 814 BUILD_FAOL_ARGS:
0495 815 :
0495 816 :
0495 817 : Move class-name cstring pointer to FAOL parameter list
0495 818 :
0495 819 :
50 00000004'EF DE 0495 820 MOVAL CLASSTABLE+4,R0 ; Get addr of table of class quadwords
50 50 6042 7D 049C 821 MOVQ (R0)[R2],R0 ; R0 gets class-name cstring ptr
50 89 50 D0 04A0 822 MOVL R0,(R9)+ ; Move it to FAOL parm list
04A3 823 :
04A3 824 :
04A3 825 : Obtain CDB address for this class
04A3 826 :
04A3 827 :
56 52 00000053 8F C5 04A3 828 MULL3 #CDB$K_SIZE,R2,R6 ; Get CDB offset from class number
56 00000000'EF46 9E 04AB 829 MOVAB CDBHEAD[R6],R6 ; NOTE - this rtn no longer needs class num
04B3 830 : Get CDB address
04B3 831 :
04B3 832 :
04B3 833 : Move appropriate segment of FAO directives into FAO control string
04B3 834 : and move address of descriptor for display qualifier to FAOL parm list,
04B3 835 : if one exists.
04B3 836 :
04B3 837 :
04B3 838 : MOVZBL CDB$B_ST_CUR(R6),R0 ; R0 gets display qualifier index
04B3 839 BBS #CDB$V STD,CDB$L_FLAGS(R6),10$ ; Branch if standard class
56 09 48 A6 04 E0 04B7 840 MOVAL PROCD_TABLE,R6 ; Get ptr to PROCESSES display qual table
56 00000000'EF DE 04BC 841 BRB 20$ ; ... and go get desired element
56 07 11 04C3 842 10$:
56 00000000'EF DE 04C5 843 MOVAL STAT_TABLE,R6 ; Get ptr to statistic qualifier ...
04CC 844 : ... table for standard classes
04CC 845 20$:
04CC 846 TSTL (R6)[R0] ; Is there a qual defined for this stat?
04CF 847 BEQL 30$ ; Branch if no
04D1 848 MOVL (R6)[R0],(R9)+ ; Move descr ptr to FAOL prmlst
63 000000C6'EF 000000BE'EF 28 04D5 849 MOVCL CL_SEG2,CL_SEG2+8,(R3) ; Move fixed segment into ctrl string
04E1 850 BRB 40$ ; Go return
04E3 851
```

SHODEF  
V04-000

- MONITOR SHOW DEFAULT Command  
SHOW\_CLASSES - Show all selected classes

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63 000000B5'EF 000000AD'EF 28 04E3 852 30\$: MOV C3 CL\_SEG1,CL\_SEG1+8,(R3) ; Move fixed segment into control ; ... string (no display qualifier) ;  
04E3 853  
04EF 854  
04EF 855 40\$:  
05 04EF 856 RSB

```
04F0 858 :  
04F0 859 : SHOW_SINGLE and SHOW_DOUBLE subroutine.  
04F0 860 : The 2 routine names are alternate entry points to show a line with  
04F0 861 : single-spacing and double-spacing, respectively.  
04F0 862 : Upon entry, R10 points to the FAOL parameter list descriptor,  
04F0 863 : R11 points to the FAOL control string descriptor and R3 to the next  
04F0 864 : available byte in the control string. The routine updates the control  
04F0 865 : string descriptor, destroys R1, and returns status in R0.  
04F0 866 :  
04F0 867 :  
01 DD 04F0 868 SHOW_SINGLE: ; Show a line and advance one line  
02 11 04F0 869 PUSHL #1 ; Stack "single-space" indicator  
04F2 870 BRB SHOW_COMM ; Join common code  
04F4 871 :  
02 DD 04F4 872 SHOW_DOUBLE: ; Show a line and advance two lines  
04F4 873 PUSHL #2 ; Stack "double-space" indicator  
04F6 874 :  
50 04 AB D0 04F6 875 SHOW_COMM: ; Common point for 2 entry points  
6B 53 50 C3 04FA 876 MOVL 4(R11),R0 ; Get address of FAOL control string  
04 AA DD 04FE 877 SUBL3 R0,R3,(R11) ; Compute actual length  
6B DF 0501 878 PUSHL 4(R10) ; Stack addr of FAOL parm list  
0000050B'EF 03 FB 0503 879 PUSHAL (R11) ; Stack addr of FAOL ctr str descr  
05 050A 880 CALLS #3,SHOW_A_LINE ; Display one line of SHOW output  
881 RSB ; Return with status in R0
```

```
050B 883 .SBTTL SHOW_A_LINE - Put a line of SHOW to terminal
050B 884
050B 885 :++
050B 886
050B 887 : FUNCTIONAL DESCRIPTION:
050B 888
050B 889 : SHOW_A_LINE sends one display line of SHOW output to the
050B 890 : terminal via the SCRPKG. The line to display is defined
050B 891 : by an $FAOL control string and parameter list, both of
050B 892 : which are input to this routine.
050B 893
050B 894 : INPUTS:
050B 895
050B 896 : 4(AP) - address of descriptor for $FAOL control string.
050B 897
050B 898 : 8(AP) - address of $FAOL parameter list.
050B 899
050B 900 : 12(AP) - number of display lines to advance after showing a line.
050B 901
050B 902 : IMPLICIT INPUTS:
050B 903
050B 904 : OUTDSC - quadword string descriptor for $FAOL output buffer.
050B 905
050B 906 : OUTPUTS:
050B 907
050B 908 : none
050B 909
050B 910 : IMPLICIT OUTPUTS:
050B 911
050B 912 : SHOW line sent to Screen Package.
050B 913
050B 914 : ROUTINE VALUE:
050B 915
050B 916 : R0 = $$$_NORMAL, or called routine error status.
050B 917
050B 918 : SIDE EFFECTS:
050B 919
050B 920 : none
050B 921
050B 922 :--
050B 923
0004 050B 924 .ENTRY SHOW_A_LINE, ^M<R2>
050B 925
050B 926 ALLOC 10, R1, R2 : Allocate a descriptor & a word
051A 927 $FAOL_S CTRSTR=@4(AP), OUTLEN=8(R2), - : Format the SHOW line
051A 928 OUTBUF=OUTDSC, PRMLST=@8(AP)
0530 929 BLBC R0, SAL_RET : Exit if error
0533 930 MOVZWL 8(R2), R2 : Move actual text len to descr
0537 931 MOVL OUTDSC+4, 4(R2) : Move addr of text to descr
053F 932 PUSHL 12(AP) : Stack spacing indicator
0542 933 PUSHAL (R2) : ... and text descriptor
0544 934 CALLS #2, G^SCR$PUT_LINE : Put the SHOW line to the terminal
054B 935
054B 936 BLBC R0, SAL_RET : Exit if error
054E 937 MOVL $$$_NORMAL, R0 : No failing status hit
0555 938
0555 939 SAL_RET:
```



SHODEF  
V04-000

- MONITOR SHOW DEFAULT Command H 15  
SHOW\_A\_LINE - Put a line of SHOW to term

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04 0555 940 RET ; Return with status in R0  
0556 941  
0556 942 .END

SUM  
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SHODEF  
Symbol table

- MONITOR SHOW DEFAULT Command

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\$\$TAB	= 00000148	R	01	CDBSV_DISKAC	= 00000006			
\$\$TABEND	= 000001A8	R	01	CDBSV_DISKVN	= 00000007			
\$\$TMP	= 00000008			CDBSV_EXPLIC	= 0000000C			
\$\$TMP1	= 00000001			CDBSV_FILLER	= 0000000D			
\$\$TMP2	= 000000CF			CDBSV_HOMOG	= 00000005			
ALLCL_INT_DEFAULT	*****	X	03	CDBSV_KUNITS	= 0000000A			
ALL_STAT	= 00000000			CDBSV_PERCENT	= 00000000			
AVE_STAT	= 00000002			CDBSV_QFILLER	= 00000002			
BUILD_FAOL_ARGS	00000495	R	03	CDBSV_STD	= 00000004			
CDB	= 00000000			CDBSV_SWAPBUF	= 00000001			
CDBSA_BUFFERS	= 0000002E			CDBSV_SYSCLS	= 00000008			
CDBSA_CDX	= 00000032			CDBSV_UNIFORM	= 00000002			
CDBSA_CHDHDR	= 0000004F			CDBSV_WIDE	= 0000000B			
CDBSA_FAOCTR	= 00000004			CDBSW_BLKLEN	= 00000020			
CDBSA_ITMSTR	= 0000001C			CDBSW_DISPCTL	= 00000036			
CDBSA_POSTCOLL	= 00000026			CDBSW_QFLAGS	= 00000045			
CDBSA_PRECOLL	= 00000022			CDBSW_QFLAGS_CUR	= 00000049			
CDBSA_SUMBUF	= 0000000C			CDBSW_QFLAGS_DEF	= 00000047			
CDBSA_TITLE	= 00000010			CDBHEAD	*****	X	03	
CDBSB_FAOPRELEN	= 00000041			CLASSTABLE	*****	X	03	
CDBSB_FAOSEGLEN	= 00000040			CLASS_HDG	000000D3	R	01	
CDBSB_ST	= 00000042			CLASS_HDR	= 00000000			
CDBSB_ST_CUR	= 00000044			CL_SEG1	000000AD	R	01	
CDBSB_ST_DEF	= 00000043			CL_SEG2	000000BE	R	01	
CDBSK_SIZE	= 00000053			CS_SEG1	00000027	R	01	
CDBSL_BUFFERS	= 0000002A			CS_SEG2	00000040	R	01	
CDBSL_ECOUNTR	= 00000018			CS_SEG3	00000058	R	01	
CDBSL_FAOCTR	= 00000000			CS_SEG4	00000064	R	01	
CDBSL_FLAGS	= 0000004B			CS_SEG5	00000071	R	01	
CDBSL_ICOUNT	= 00000014			CS_SEG6	0000007F	R	01	
CDBSL_MIN	= 00000038			CS_SEG7	00000095	R	01	
CDBSL_RANGE	= 0000003C			CT_STR	0000000F	R	01	
CDBSL_SUMBUF	= 00000008			CURR_ERRCODE	*****	X	03	
CDBSM_CPU	= 00000002			CURR_MRBPTR	*****	X	03	
CDBSM_CPU_COMB	= 00000008			CUR_STAT	= 00000001			
CDBSM_CTPRES	= 00000001			DEFS_A_DISP	= 0000000C			
CDBSM_DISABLE	= 00000200			DEFS_A_REC	= 00000004			
CDBSM_DISKAC	= 00000040			DEFS_A_SUMM	= 00000014			
CDBSM_DISKVN	= 00000080			DEFS_L_DISP	= 00000008			
CDBSM_EXPLIC	= 00001000			DEFS_L_REC	= 00000000			
CDBSM_HOMOG	= 00000020			DEFS_L_SUMM	= 00000010			
CDBSM_KUNITS	= 00000400			DEFS_DEF_DESC	= 00000018			
CDBSM_PERCENT	= 00000001			DEF_DESC	= 00000000			
CDBSM_STD	= 00000010			ERROR_QUAL	000002AF	R	01	
CDBSM_SWAPBUF	= 00000002			FABSB_FNS	= 00000034			
CDBSM_SYSCLS	= 00000100			FABSC_BID	= 00000003			
CDBSM_UNIFORM	= 00000004			FABSC_BLN	= 00000050			
CDBSM_WIDE	= 00000800			FABSC_SEQ	= 00000000			
CDBSS_CDB	= 00000053			FABSC_VAR	= 00000002			
CDBSS_FILLER	= 00000013			FABSL_ALQ	= 00000010			
CDBSS_FLAGS	= 00000004			FABSL_FNA	= 0000002C			
CDBSS_QFILLER	= 0000000E			FABSL_FOP	= 00000004			
CDBSS_QFLAGS	= 00000002			FABSV_CHAN_MODE	= 00000002			
CDBSV_CPU	= 00000001			FABSV_FILE_MODE	= 00000004			
CDBSV_CPU_COMB	= 00000003			FABSV_LNM_MODE	= 000000C0			
CDBSV_CTPRES	= 00000000			FABSV_NAM	= 00000018			
CDBSV_DISABLE	= 00000009			FABSW_GBC	= 00000048			

SUP  
V04

SHODEF  
Symbol table

- MONITOR SHOW DEFAULT Command

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```
FILE_HDR = 00000000
FLUSH_INT_DEFAULT = 00000000 X 03
HOM_CLASS_PRE = 00000000
ID_STR = 0000001C R 01
IFB = 00000000
IFBSA_INPUT = 00000000
IFBSB_COL_NO = 00000004
IFBSK_SIZE = 00000005
IFBSS_IFB = 00000005
INTERVAL_DEFAULT = 00000000 X 03
LIBSPUT_BUFFER = 00000000 X 03
LIBSSET_BUFFER = 00000000 X 03
MAX_CLASS_NO = 00000000 X 03
MAX_STAT = 00000004
MIN_STAT = 00000003
MNR_FILSYNERR = 00000000 X 03
MNR_SHOWERR = 00000000 X 03
MNR_CLSSB_TYPE = 00000000
MNR_CLSSK_HSIZE = 00000000
MNR_CLSSQ_STAMP = 00000003
MNR_CLSSS_CLASS_HDR = 00000000
MNR_CLSSS_FILLER = 0000000F
MNR_CLSSS_FLAGS = 00000002
MNR_CLSSS_STAMP = 00000008
MNR_CLSSV_CONT = 00000000
MNR_CLSSV_FILLER = 00000001
MNR_CLSSW_FLAGS = 00000001
MNR_CLSSW_RESERVED = 0000000B
MNR_HDRSB_TYPE = 00000000
MNR_HDRSK_CLASSBITS = 00000073
MNR_HDRSK_MAXCOMLEN = 0000003C
MNR_HDRSK_REVLEVELS = 00000083
MNR_HDRSK_SIZE = 00000103
MNR_HDRSL_FLAGS = 00000001
MNR_HDRSL_INTERVAL = 00000015
MNR_HDRSL_RECCT = 00000029
MNR_HDRSQ_CLASSBITS = 00000073
MNR_HDRSQ_REVCLSBITS = 00000019
MNR_HDRSQ_BEGINNING = 00000005
MNR_HDRSQ_ENDING = 00000000
MNR_HDRSS_BEGINNING = 00000008
MNR_HDRSS_CLASSBITS = 00000010
MNR_HDRSS_COMMENT = 0000003C
MNR_HDRSS_ENDING = 00000008
MNR_HDRSS_FILE_HDR = 00000103
MNR_HDRSS_FILLER = 00000020
MNR_HDRSS_FLAGS = 00000004
MNR_HDRSS_LEVEL = 00000008
MNR_HDRSS_REVCLSBITS = 0000001C
MNR_HDRSS_REVLEVELS = 00000080
MNR_HDRSS_TYPE = 00000008
MNR_HDRST_COMMENT = 00000035
MNR_HDRST_LEVEL = 00000020
MNR_HDRST_REVLEVELS = 00000083
MNR_HDRSV_FILLER = 00000000
MNR_HDRSW_COMLEN = 00000071
MNR_HOMSK_PSIZE = 00000008
```

```
MNR_HOMSL_ELCTCT = 00000000
MNR_HOMSL_RESERVED = 00000004
MNR_HOMSS_HOM_CLASS_PRE = 00000008
MNR_PROSB_PRI = 0000000A
MNR_PROSK_DSIZE = 0000003B
MNR_PROSK_FSIZE = 00000040
MNR_PROSK_PSIZE = 00000008
MNR_PROSK_REVODSIZE = 00000033
MNR_PROSK_REV1DSIZE = 0000003B
MNR_PROSL_BIOCNT = 0000002F
MNR_PROSL_CPUTIM = 0000002B
MNR_PROSL_DIOCNT = 00000023
MNR_PROSL_EFWM = 00000037
MNR_PROSL_EPID = 00000033
MNR_PROSL_IPID = 00000000
MNR_PROSL_PAGEFLTS = 00000027
MNR_PROSL_PCTINT = 00000004
MNR_PROSL_PCTREC = 00000000
MNR_PROSL_STS = 0000001F
MNR_PROSL_UIC = 00000004
MNR_PROSL_LNAME = 0000000B
MNR_PROSS_LNAME = 00000010
MNR_PROSS_PROCESS_CLASS = 0000003B
MNR_PROSS_PRO_CLASS_PRE = 00000008
MNR_PROSW_GPGCNT = 0000001B
MNR_PROSW_PPGCNT = 0000001D
MNR_PROSW_STATE = 00000008
MNR_SYISB_MPCPUS = 00000000
MNR_SYISB_TYPE = 00000000
MNR_SYISK_BALSETMEM = 0000001E
MNR_SYISK_CPUTYPE = 00000026
MNR_SYISK_MPWHILIM = 00000022
MNR_SYISK_NODENAME = 0000000E
MNR_SYISK_SIZE = 0000002A
MNR_SYISL_BALSETMEM = 0000001E
MNR_SYISL_CPUTYPE = 00000026
MNR_SYISL_MPWHILIM = 00000022
MNR_SYISQ_BOOTTIME = 00000003
MNR_SYISS_BOOTTIME = 00000008
MNR_SYISS_FILLER = 0000000E
MNR_SYISS_FLAGS = 00000002
MNR_SYISS_NODENAME = 00000010
MNR_SYISS_SYS_INFO = 0000002A
MNR_SYISS_TYPE = 00000008
MNR_SYIST_NODENAME = 0000000E
MNR_SYISV_CLUSMEM = 00000000
MNR_SYISV_FILLER = 00000002
MNR_SYISV_RESERVED1 = 00000001
MNR_SYISW_FLAGS = 00000001
MNR_SYISW_MAXPRCCT = 0000000B
MON_ERR = 00000000 X 03
MRB = 00000000
MRBSA_COMMENT = 0000002C
MRBSA_DISPLAY = 00000020
MRBSA_INPUT = 0000001C
MRBSA_RECORD = 00000024
MRBSA_SUMMARY = 00000028
```



SHODEF  
Symbol table

- MONITOR SHOW DEFAULT Command

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MRBSB\_INP\_FILES = 00000042  
MRBSK\_SIZE = 00000045  
MRBSL\_FLUSH = 00000014  
MRBSL\_INTERVAL = 00000010  
MRBSL\_VIEWING\_TIME = 00000018  
MRBSM\_ALL\_CLASS = 00000400  
MRBSM\_BY\_NODE = 00001000  
MRBSM\_DISPLAY = 00000001  
MRBSM\_DISP\_TO\_FILE = 00000020  
MRBSM\_DIS\_CL\_REQ = 00000100  
MRBSM\_INDEFEND = 00000010  
MRBSM\_INP\_CL\_REQ = 00000040  
MRBSM\_MFSOM = 00000800  
MRBSM\_PLAYBACK = 00000008  
MRBSM\_PROC\_REQ = 00004000  
MRBSM\_RECORD = 00000002  
MRBSM\_REC\_CL\_REQ = 00000080  
MRBSM\_SUMMARY = 00000004  
MRBSM\_SUM\_CL\_REQ = 00000200  
MRBSM\_SYSCLS = 00002000  
MRBSQ\_CLASSBITS = 00000032  
MRBSQ\_BEGINNING = 00000000  
MRBSQ\_ENDING = 00000008  
MRBS\_S\_BEGINNING = 00000008  
MRBS\_S\_CLASSBITS = 00000010  
MRBS\_S\_ENDING = 00000008  
MRBS\_S\_FLAGS = 00000002  
MRBS\_S\_MRB = 00000045  
MRBSV\_ALL\_CLASS = 0000000A  
MRBSV\_BY\_NODE = 0000000C  
MRBSV\_DISPLAY = 00000000  
MRBSV\_DISP\_TO\_FILE = 00000005  
MRBSV\_DIS\_CL\_REQ = 00000008  
MRBSV\_FILTER = 0000000F  
MRBSV\_INDEFEND = 00000004  
MRBSV\_INP\_CL\_REQ = 00000006  
MRBSV\_MFSOM = 0000000B  
MRBSV\_PLAYBACK = 00000003  
MRBSV\_PROC\_REQ = 0000000E  
MRBSV\_RECORD = 00000001  
MRBSV\_REC\_CL\_REQ = 00000007  
MRBSV\_SUMMARY = 00000002  
MRBSV\_SUM\_CL\_REQ = 00000009  
MRBSV\_SYSCLS = 0000000D  
MRBSW\_CLASSCT = 00000030  
MRBSW\_FLAGS = 00000043  
NAMS\_B\_ESL = 0000000B  
NAMS\_B\_ESS = 0000000A  
NAMS\_B\_NOP = 00000008  
NAMS\_B\_RSS = 00000002  
NAMS\_C\_BID = 00000002  
NAMS\_C\_BLN = 00000060  
NAMS\_C\_MAXRSS = 000000FF  
NAMS\_L\_ESA = 0000000C  
NAMS\_L\_RSA = 00000004  
NAMS\_V\_SYNCHK = 00000003  
NO\_CLASS\_HDG = 000000E3 R 01

OUTDSC \*\*\*\*\* X 03  
PROCDISPS = 00000005  
PROCD\_TABLE \*\*\*\*\* X 03  
PROCESS\_CLASS = 00000000  
PRO\_CLASS\_PRE = 00000000  
QUALSA\_ALL = 00000064  
QUALSA\_AVE = 00000074  
QUALSA\_BEG = 00000004  
QUALSA\_BY\_NODE = 00000054  
QUALSA\_CLASS = 0000005C  
QUALSA\_COMM = 0000004C  
QUALSA\_CPU = 000000AC  
QUALSA\_CUR = 0000006C  
QUALSA\_DISP = 00000034  
QUALSA\_END = 0000000C  
QUALSA\_FLUSH = 0000001C  
QUALSA\_INP = 0000002C  
QUALSA\_INT = 00000014  
QUALSA\_ITEM = 000000BC  
QUALSA\_MAX = 00000084  
QUALSA\_MIN = 0000007C  
QUALSA\_PCEN = 000000B4  
QUALSA\_REC = 0000003C  
QUALSA\_SUMM = 00000044  
QUALSA\_TOPB = 0000009C  
QUALSA\_TOPC = 0000008C  
QUALSA\_TOPD = 00000094  
QUALSA\_TOPF = 000000A4  
QUALSA\_VIEW = 00000024  
QUALSL\_ALL = 00000060  
QUALSL\_AVE = 00000070  
QUALSL\_BEG = 00000000  
QUALSL\_BY\_NODE = 00000050  
QUALSL\_CLASS = 00000058  
QUALSL\_COMM = 00000048  
QUALSL\_CPU = 000000A8  
QUALSL\_CUR = 00000068  
QUALSL\_DISP = 00000030  
QUALSL\_END = 00000008  
QUALSL\_FLUSH = 00000018  
QUALSL\_INP = 00000028  
QUALSL\_INT = 00000010  
QUALSL\_ITEM = 000000B8  
QUALSL\_MAX = 00000080  
QUALSL\_MIN = 00000078  
QUALSL\_PCEN = 000000B0  
QUALSL\_REC = 00000038  
QUALSL\_SUMM = 00000040  
QUALSL\_TOPB = 00000098  
QUALSL\_TOPC = 00000088  
QUALSL\_TOPD = 00000090  
QUALSL\_TOPF = 000000A0  
QUALSL\_VIEW = 00000020  
QUALSS\_QUALIFIER\_DESC = 000000C0  
QUALIFIER\_DESC = 00000000  
QUALPTR \*\*\*\*\* X 03  
REG\_PROC = 00000000



SHODEF  
Symbol table

- MONITOR SHOW DEFAULT Command

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RMS\$ SYN	*****	X	03
RV_STR	00000000	R	01
SAC_RET	00000555	R	03
SCAN_CLASSES	00000348	R	03
SCR\$PUT_LINE	*****	X	03
SCR\$SET_OUTPUT	*****	X	03
SCR\$STOP_OUTPUT	*****	X	03
SCRDSC	*****	X	03
SF_ERR	0000020B	R	03
SHC_NORM	0000048D	R	03
SHC_RET	00000494	R	03
SHD_ERR	000003EA	R	03
SHD_RET	00000402	R	03
SHODEF_CMD	00000000	RG	03
SHOW_A_LINE	0000050B	RG	03
SHOW_CLASSES	0000041E	RG	03
SHOW_COMM	000004F6	R	03
SHOW_DOUBLE	000004F4	R	03
SHOW_FAB	000000F8	R	01
SHOW_FILESPEC	000001A8	R	01
SHOW_FILE_QUAL	000002AE	R	03
SHOW_INPUT_QUAL	0000020E	R	03
SHOW_NAM	00000148	R	01
SHOW_QUAL	00000304	R	03
SHOW_SINGLE	000004F0	R	03
SHOW_SPEC_D	000002A7	R	01
SHO_END	000000FB	R	03
SHO_FILES	000001B0	R	03
SHO_FLUSH	00000178	R	03
SHO_INT	000000A2	R	03
SHO_VIEW	0000013E	R	03
SS\$ NORMAL	*****	X	03
STATS	= 00000005		
STAT TABLE	*****	X	03
SYSSFAOL	*****	GX	03
SYSSPARSE	*****	GX	03
SYS_INFO	= 00000000		
TOPB_PROC	= 00000003		
TOPC_PROC	= 00000001		
TOPD_PROC	= 00000002		
TOPF_PROC	= 00000004		
VIEWING_DEFAULT	*****	X	03

+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS .	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
MONDATA	000002B3 ( 691.)	01 ( 1.)	NOPIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC QUAD
\$ABSS	00000000 ( 0.)	02 ( 2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
\$MONCODE	00000556 ( 1366.)	03 ( 3.)	NOPIC USR CON REL LCL NOSHR EXE RD NOWRT NOVEC BYTE

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
-----	-----	-----	-----
Initialization	29	00:00:00.09	00:00:00.58
Command processing	130	00:00:00.79	00:00:03.42
Pass 1	303	00:00:08.53	00:00:26.39
Symbol table sort	0	00:00:01.16	00:00:02.40
Pass 2	178	00:00:02.58	00:00:09.67
Symbol table output	45	00:00:00.30	00:00:01.48
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	689	00:00:13.48	00:00:43.97

The working set limit was 1650 pages.  
48455 bytes (95 pages) of virtual memory were used to buffer the intermediate code.  
There were 50 pages of symbol table space allocated to hold 828 non-local and 40 local symbols.  
942 source lines were read in Pass 1, producing 28 object records in Pass 2.  
37 pages of virtual memory were used to define 22 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name	Macros defined
-----	-----
_\$255\$DUA28:[MONITOR.OBJ]MONLIB.MLB;1	4
_\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	0
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	14
TOTALS (all libraries)	18

1007 GETS were required to define 18 macros.  
There were no errors, warnings or information messages.  
MACRO/LIS=LIS\$:SHODEF/OBJ=OBJ\$:SHODEF MSRC\$:SHODEF/UPDATE=(ENH\$:SHODEF)+EXECML\$/LIB+LIB\$:MONLIB/LIB



0242 AH-BT13A-SE  
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION  
CONFIDENTIAL AND PROPRIETARY

MONMSG  
LIS

REQUEST  
LIS

SHODEF  
LIS

MONSUB  
LIS

PREPOST  
LIS

SUMMBUFF  
LIS